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PROCEEDINGS OF THE SECOND DAY.

TUESDAY, NOVEMBER 25, 1884.

The President, Dr. Brown, in the chair. Upon the recommendation of the Committee on Nominations, the following persons were elected to the offices named, for the term of one year:

President—R. J. Brown, of Leavenworth.

Vice Presidents—E. L. Nichols, of Lawrence, and G. H. Failyer, of Manhattan.

Treasurer—A. H. Thompson, of Topeka.

Secretary—E. A. Popenoe, of Manhattan.

Curators—O. H. St. John, of Topeka; J. H. Carruth, of Lawrence; J. T. Lovewell, Geo. S. Chase, and F. W. Cragin, of Topeka.

Librarian—F. W. Cragin.

The following papers were read:

ADDITIONS TO THE CATALOGUE OF KANSAS COLEOPTERA FOR 1883 AND 1884.

BY WARREN KNAUS, SALINA, KANSAS.

The following one hundred and sixty species of Coleoptera were mostly taken in Saline and Wilson counties. Fifteen species were added by Professor F. H. Snow, from the vicinity of Lawrence; five were added by Mr. A. W. Jones, of Salina, and numbers 25*b* 51*a*, Ataenius, sp. 6779, 6807 and 6808, were taken in Wallace and Gove counties in 1878 by Professor Snow, and published in the Transactions of the Academy for that year, but have never been transferred to the general list. The species from Saline county were taken near Salina and Brookville, and those from Wilson county, near Buffalo. In the list the locality of each species is given, with occasional notes as to habits, some of which I trust may be of assistance to collectors.

These additions bring the Kansas list of Coleoptera up to about 2,059 species and varieties, and still keep it at the head of State lists in the number and variety of Coleopterous forms.

For the determination of most of the species here given, I am indebted to the kindness of Mr. Henry Ulke, of Washington, D. C., to whom many thanks are due.

The numbers prefixed are those of Crotch's Check List, with Austin's supplement:

25*b*. *Cicindela* venusta Lec. Snow. 1878. Wallace county.

51*a*. *Cicindela* micans Fabr. Snow. 1878.

103. *Notiophilus* semistriatus Say. Snow. Lawrence and Manhattan.

241. *Dyschirius* pilosus Lec. Salina. Two specimens from margin of Smoky Hill river.

248. *Aspidoglossa* subangulata Chd. Salina and Buffalo. Not common.

256. *Clivina* rubicunda Lec. Buffalo. Rare.

258. *Clivina* rufa Lec. Buffalo. Rare in mud on margin of stream.

277. *Schizogenius* ferrugineus Putz. Buffalo. Rare. Same locality as 258.

301. *Brachynus* kansanus Lec. Salina. One specimen.
357. *Lebia* fuscata Dej. Snow. Lawrence.
404. *Cymindis* pilosa Say. Jones. Salina. One specimen.
539. *Loxandrus* tæniatus Lec. Buffalo. Rare.
7544. *Amara* texana Putz. Salina. Rare.
7548. *Brachylobus* lithophilus Say. Brookville. Rare.
7551. *Chlœnius* platyderus Chd. Manhattan. Not common.
944. *Harpalus* nitidulus Chd. Brookville. Not common.
1025. *Bembidium* paludosum Sturm. Buffalo. On margin of stream.
1062. *Bembidium* lugubre Lec. Chapman Creek. Dickinson county. Rare.
1120. *Bembidium* pedicellatum Lec. Salina. One specimen.
1132. *Tachys* pumilus Dej. Buffalo. Three specimens.
1139. *Tachys* lævis Say. Buffalo. Rare.
1173. *Haliplus* fasciatus Aube. Buffalo. Two specimens.
1212. *Hydroporus* mellitus Lec. Buffalo. Common in Elder Branch creek.
1239. *Hydroporus* semirufus Lec. Buffalo. Common in Elder Branch creek.
1339. *Coptotomus* longulus Lec. Salina. One specimen.
——. *Hydrœna* Sp. Buffalo. In Elder Branch creek.
1431. *Helophorus* linearis Lec. Buffalo. One specimen from Elder Branch creek.
1513. *Hydrobius* rufiventris Horn. Brookville. In mud in pools.
1533. *Cercyon* centromaculatum St. Salina. Common in places.
1539. *Cercyon* anale Er. Buffalo and Salina. Rare.
1668. *Oxypoda* sagulata Er. Salina.
1791. *Staphylinus* violaceus Gray. Jones. Salina. One specimen.
——. *Philonthus* varians Payk. Salina. Common.
——. *Philonthus* jocosus Horn. Buffalo. Common in mud on margins of drying pools in Elder Branch.
1852. *Xantholinus* hamatus Say. Salina.
1883. *Crytobium* pimerianum Lec. Buffalo and Salina.
——. *Echiaster* sallei Fauv. Salina. Rare.
1988. *Platystethus* americanus Er. Salina. Common.
——. *Oxytelus* near placusinus Lec. Salina. Not common.
7818. *Oxytelus* placusinus Lec. Buffalo. Not common.
2002. *Trogophlœus* 4-punctatus Say. Buffalo. In mud on margins of drying pools.
2159. *Trimium* parvulum Lec. Buffalo. Taken in sifting leaves and decaying wood.
7927. *Choleva* clavicornis Lec. Salina. Taken on a rabbit-foot bait.
——. *Scydmœnus* sp. Salina.
2310. *Corylophus* marginicollis Lec. Salina. Not common.
2313. *Sericoderus* obscurus Lec. Salina. Rare.
2323. *Sacium* scitulum Lec. Salina. Common.
2374. *Corticaria* americanus Mannh. Salina. Common.
2382. *Corticaria* cavicollis Lec. Salina. Not common.
2387. *Corticaria* pumilus Mels. Salina. Common.
2455. *Rhymbus* ulkei Cr. Manhattan. Rare.
2467. *Litargus* tetraspilotus Lec. Salina. Not common.
2476. *Sphindus* americanus Lec. Salina. Rare.
2554. *Cryptophagus* crinitus Zimm. Buffalo. One specimen.
2572. *Atomaria* ochracea Zimm. Salina. Common.
2675. *Monotoma* americana Aube. Salina. Rare.

2681. *Nemosoma* cylindricum Lec. Salina. One specimen.
8043. *Epurœa* ovata Horn. Salina. Rare.
2898. *Hyperaspidius* militaris Lec. Snow. Lawrence.
2905. *Scymnus* bioculatus Muls. Salina. Rare.
2919. *Scymnus* collaris Mels. Salina. Common.
2978. *Helichus* æqualis Lec. Ottawa and Dickinson counties, under stones and sticks in running streams.
2981. *Elmis* 4-notatus Lec. Buffalo. In moss and mud in pools.
8104. *Heterocerus* undatus Mels. Buffalo. Common. Salina. Rare.
3246. *Onthophagus* canadensis Fabr. Brookville. One specimen.
3263. *Aphodius* ruricola Mels. Salina and Buffalo. Common.
3272. *Aphodius* lividus Oliv. Buffalo. Common.
——. *Atænius* sp. Snow. Gove county. 1878.
3447. *Macrodactylus* angustatus Beauv. Salina. Not common.
3470. *Diplotaxis* dubia Lec.
3499. *Lachnosterna* burmeisteri Lec. Buffalo. Common.
3548. *Lachnosterna* crinita Burm. Brookville. Rare.
3733. *Melanophila* atropurpurea Say. West Kansas.
3743. *Anthaxia* flavimana Gory. Buffalo. One specimen.
3809*a*. *Agrilus* pusillus Say. Salina. Common.
3813. *Agrilus* 4-guttatus Gory. Manhattan. Rare.
——. *Agrilus* sp. Jones. Salina.
3828*b*. *Agrilus* puncticeps Lec. Salina. Not common.
3864. *Tharops* ruficornis Say. Buffalo. Rare.
4037. *Elater* miniipennis Lec. Buffalo. Rare.
4043. *Elater* obliquus Say. Salina and Brookville. Not common.
4045*a*. *Elater* areolatus Say. Salina and Brookville. Not common.
4162. *Melanotus* tenax Say. Salina. One specimen.
4231. *Athous* equestris Lec. Salina. One specimen.
4500. *Podabrus* poricollis Lec. Snow. Lawrence.
4520. *Telephorus* carolinus Fabr., var. jactatus Say. Buffalo and Salina.
4615. *Pseudebæus* apicalis Lec. Buffalo. Rare.
4625. *Attalus* terminalis Er. Jones. Salina.
——. *Attalus* near nigripes Horn. Buffalo. Rare.
4704. *Cymatodera* bicolor Say. Snow. Lawrence.
4763. *Hydnocera* verticalis Say. Salina. One specimen.
4805. *Ptinus* brunneus Duft. Jones. Salina. Not common.
4852. *Hemiptychus* punctatus Lec. Salina. One specimen.
4927. *Asemum* moestum Hald. Buffalo. Rare.
5018. *Elaphidion* moestum Lec. Buffalo. Rare.
5191. *Acmæops* trivittata Hald.
5371. *Hyperplatys* maculatus Hald. Snow. Lawrence.
5452. *Tetraopes* annulatus Lec. West Kansas.
5503. *Bruchus* musculus Say. Snow. Lawrence.
5505. *Bruchus* exiguus Horn. Salina.
5538. *Zeugophora* abnormis Lec. Snow. Lawrence.
5570. *Coscinoptera* mucorea Cr. Salina. Not common.
8446. *Lema* circumvittata Clark. Salina. Rare.
8459. *Diachus?* chlorizans Suffr. Salina. Rare.
5579*a*. *Monachus* ater Hald. Salina. Rare.
8489. *Cryptocephalus* carinatus Lec. Salina. Rare.

8499. *Cryptocephalus* fulguratus Lec. Salina. Not common.
5643. *Pachybrachys* femoratus Oliv. Salina and Osage county.
5651. *Pachybrachys* cælatus Lec. Salina. Rare.
8511. *Pachybrachys* virgatus Lec. Salina. Rare.
5670. *Xanthonia* Stevensii Baly. Buffalo. Rare.
5695*a*. *Paria* opacicollis Lec. Salina. Common.
5703. *Metachroma* dubiosa Say. West Kansas.
5722*a*. *Chrysomela* Rogersii Lec. Manhattan. One specimen.
5740. *Chrysomela* philadelphica Linn var. Manhattan. Rare.
5781*a*. *Phyllechthrus* nigripennis Lec. Salina and Brookville. Common.
5862*b*. *Œdionychis* limbalis Mels. Salina and Brookville. Not common.
5874*b*. *Disonycha* cervicalis Lec. Salina. Common.
——. *Graptodera* near exapta Say. Buffalo.
5903. *Orchestris* Zimmermanni Cr. Salina. Common on cruciferæ.
5907. *Orchestris* albionica Lec. Salina. Same as above.
5909. *Orchestris* æneicollis Cr. Snow. Lawrence.
5920. *Systena* marginalis Ill. Buffalo. Three specimens.
——. *Crepidodera* n. sp. Osage county. Common.
5937. *Epitrix* hirtipennis Mels. Salina. Not common.
5951. *Psylliodes* punctulata Mels. Snow. Lawrence. Also Salina.
5955. *Stenispa* collaris Baly. Snow.
5962*a*. *Odontata* inæqualis Web. Salina and Buffalo. Not common.
6422. *Dendroides* canadensis Latr. Snow. Lawrence.
6440. *Corphyra* labiata Say. Brookville. Two specimens.
6490. *Anthicus* ephippium Laf. Salina. Rare.
6575. *Pentaria* trifasciata Mels. var. immaculata. Salina. Common.
6625. *Mordellistena* cervicalis Lec. Buffalo, on solidago. Rare.
6642. *Mordellistena* pustulata Mels. Salina. Common.
6757. *Pyrota* discoidea Lec. Buffalo. Rare.
6779. *Cantharis* reticulata Say. Snow. Gove county. 1878.
6807. *Nemognatha* sparsa Lec. Snow. Wallace county. 1878.
6808. *Nemognatha* bicolor Lec. Snow. Wallace county. 1878.
6845. *Xanthochroa* lateralis Mels. Salina. Common.
8779. *Panscopus* erinaceus Say. Snow.
8862. *Sitones* californicus Fahrs. Buffalo. Rare.
8863. *Sitones* sordidus Lec. Snow.
8892. *Lepyrus* geminatus Say. Salina. Rare.
8917. *Macrops* sparsus Say. Salina. Not common.
8991. *Dorytomus* laticollis Lec. Salina. Rare.
9006. *Smicronyx* ovipennis Lec. Salina. Rare.
9007. *Smicronyx* griseus Lec. Salina. Not common.
9015. *Smicronyx* sordidus Lec. Buffalo. One specimen.
——. *Smicronyx* n. sp. Snow. Lawrence.
9083. *Coccotorus* scutellaris Lec. Salina. Common.
9144. *Thysanocnemis* helvolus Lec. Salina.
9257. *Copturus* adspersus Lec. Salina. Common.
——. *Ceutorhynchus* erysimi Fabr. Salina. Introduced from Europe.
9403. *Balaninus* quercus Horn. Buffalo. One specimen.
9454. *Calandra* remotepunctata Gyll. Salina. Rare.
9480. *Wollastonia* quercicola Boh. Salina. Common.

9611. *Phlœosinus* dentatus Say. Salina, on *juniperus virginiana* (red cedar). Common.
9670. *Brachytarsus* limbatus Say. Salina and Buffalo. Not common.
——. *Apion* ovale Smith. Salina. Common.
——. *Apion* obsoletum Smith. Buffalo. Rare.

PREPARATORY STAGES OF HYPERCHIRIA ZEPHYRIA GROTE.

BY PROF. F. H. SNOW, OF THE UNIVERSITY OF KANSAS.

In July 1882, while our University Scientific Expedition was encamped in the Gallinas Cañon above the Hot Springs near Las Vegas, N. M., my son Willie was so fortunate as to discover the first specimen of this beautiful moth. A few evenings later a second specimen flew into our tent, attracted by the light of the camp fire. This species has the primaries of a dark, ashy brown color, each being crossed by a very narrow oblique white band on its terminal third, while each secondary is of a bright yellow color with ash-brown margin and a conspicuous eye-spot quite similar to that of *Hyperchiria Io.*

In 1883, at the same camping-place, no moths were obtained, but in August half-grown caterpillars were found feeding upon the leaves of the scrubby white oak (*Quercus alba* var. *Gunnisoni* Torr.) From their branching, spiny tubercles, and the stinging sensations produced by them upon the hands of my children, I recognized their generic determination, and surmised that the species would prove to be the *H. zephyria,* captured in the preceding year. A considerable number of the caterpillars were brought with us to Lawrence, Kansas, where they fed readily upon the leaves of the Black Oak (*Quercus tinctoria*), and before the end of September passed safely into the pupa stage within thin and loosely constructed but tough and inelastic cocoons, the latter fastened to leaves and other debris or to the sides and bottoms of the breeding-cages.

It was observed in New Mexico that during the day-time the caterpillars were scattered about over the oak upon which they were feeding, but on approach of night they manifested a tendency to arrange themselves in processionary lines along the branches and trunk of the tree. The stinging sensations produced by their spines upon tender hands were often severe, and were accompanied by white swellings of the irritated skin which in some cases continued for two or three days.

The chrysalids lived through the winter, and early in June, 1884, the moths began to emerge. Several males and females were confined in a breeding-cage with the expectation of securing fertilized eggs and the entire cycle of transformations. But the experiment did not prove to be a success. Perhaps the moths, having emerged at an altitude fully one mile nearer the sea level than their original home, were unfavorably affected by the climatic change, and therefore refused to mate.

The following is a description of the

FULL-GROWN LARVA.

Length 2½ to 2¾ inches (64 to 70 mm.). General color of upper surface, bright lemon yellow. The second segment (the head is considered to be the first segment) has a transverse brownish-black band. The remaining segments have each eight narrow black longitudinal lines, extending from a point just behind the center of each segment to a point just in front of the center of the succeeding segment. Two of these black lines along the dorsum constitute a pair and are nearly continuous, but are separated by a narrow white line. Two other black lines upon the sides of each pair of segments are more widely separated and constitute a second and third pair. Between the dorsal pair of lines